

ABSTRACT OF DISCLOSURE

Disclosed is a noncoherent pulse position and phase shift keying (PPPSK) transmission/reception system and a transmission/reception signal processing method therefor. Transmission system has an information generation unit for generating information data; a modulation unit for deciding a phase and a timing position corresponding to generated information data; and a wavelet generation unit for generating a wavelet based on the decided phase and timing position, and the reception system has an offset unit for mixing the reception signal with a high-frequency component corresponding to a center frequency of a transmission frequency band and offsetting a high frequency of the reception signal; a demodulation unit for generating at least one reference signal based on a previous signal precedingly received with respect to the reception signal and mixing the reference signals and the reception signal; and a decision unit for deciding information data corresponding to the reception signal based on mixing results.